

Quick answers to common problems

matplotlib Plotting Cookbook

Learn how to create professional scientific plots using matplotlib, with more than 60 recipes that cover common use cases



Matplotlib Plotting Cookbook Devert Alexandre

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Matplotlib Plotting Cookbook Devert Alexandre:

matplotlib Plotting Cookbook Alexandre Devert, 2014-03-26 This book follows a cookbook style approach that puts orthogonal and non redundant recipes in your hands Rather than rehashing the user manual the explanations expose the underlying logic behind Matplotlib If you are an engineer or scientist who wants to create great visualizations with Python rather than yet another specialized language this is the book for you While there are several very competent plotting packages Matplotlib is just a Python module Thus if you know some Python already you will feel at home from the first steps on In case you are an application writer you won t be left out since the integration of Matplolib is covered matplotlib Duncan M. McGreggor, 2015-06-29 matplotlib is a Python plotting library that provides a large feature set for a multitude of platforms Given the depth of the library s legacy and the variety of related open source projects gaining expert knowledge can be a time consuming and often confusing process You ll begin your exciting journey learning about the skills that are necessary in leading technical teams for a visualization project or to become a matplotlib contributor Supported by highly detailed IPython Notebooks this book takes you through the conceptual components underlying the library and then provides a detailed overview of its APIs From there you will learn about event handling and how to code for interactive plots Next you will move on to customization techniques local configuration of matplotib and then deployments in Cloud environments. The adventure culminates in an exploration of big data visualization and matplotlib clustering Matplotlib 2.x By Example Allen Yu, Claire Chung, Aldrin Yim, 2017-08-28 Unlock deeper insights into visualization in form of 2D and 3D graphs using Matplotlib 2 x About This Book Create and customize live graphs by adding style color font to make appealing graphs A complete guide with insightful use cases and examples to perform data visualizations with Matplotlib's extensive toolkits Create timestamp data visualizations on 2D and 3D graphs in form of plots histogram bar charts scatterplots and more Who This Book Is For This book is for anyone interested in data visualization to get insights from big data with Python and Matplotlib 2 x With this book you will be able to extend your knowledge and learn how to use python code in order to visualize your data with Matplotlib Basic knowledge of Python is expected What You Will Learn Familiarize with the latest features in Matplotlib 2 x Create data visualizations on 2D and 3D charts in the form of bar charts bubble charts heat maps histograms scatter plots stacked area charts swarm plots and many more Make clear and appealing figures for scientific publications Create interactive charts and animation Extend the functionalities of Matplotlib with third party packages such as Basemap GeoPandas Mplot3d Pandas Scikit learn and Seaborn Design intuitive infographics for effective storytelling In Detail Big data analytics are driving innovations in scientific research digital marketing policy making and much more Matplotlib offers simple but powerful plotting interface versatile plot types and robust customization Matplotlib 2 x By Example illustrates the methods and applications of various plot types through real world examples It begins by giving readers the basic know how on how to create and customize plots by Matplotlib It further covers how to plot different types

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